

**IN THE CLAIMS:**

Please add the following claims.

- 5. A sensor system comprising:
- a sensor module having a sensor module power input and an output for supplying a sensor module output;
- a sensor module power-supply switch for switching on or off a supply of electrical power to said sensor module power input;
- a control circuit for receiving and processing said sensor module output and providing a processed output; and
- said control circuit including means for detecting completion of reception of said sensor module output and for turning off said sensor module power-supply switch in response to the detection of completion and prior to said control circuit processing said sensor module output.
6. The sensor system of claim 5 wherein:
- said sensor module includes:
- a sensor element; and
- a sensing circuit for processing an output signal from said sensor element to provide said sensor module output and for

outputting an output indicating signal signifying a start of output of said sensor module output;

said control circuit including:

a data line switch controlling power to a data line receiving said sensor module output to enable reading of said sensor module output; and

a data line control means for setting said data line switch to enable reading of said sensor module output in response to receiving said output indicating signal.

7. The sensor system of claim 6 wherein said data line control means sets said data line switch to disable reading said sensor module output in response to the detection of completion and prior to said control circuit processing said sensor module output.

8. The sensor system of claim 7 wherein said sensor module includes:  
an emitting element for sending out an emission to be sensed by said sensor element; and

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said sensing circuit including a drive circuit producing a drive signal for driving said emitting element and driving generation of said output indicating signal.

9. The sensor system of claim 8 wherein said drive signal and said output indicating signal are formed of a number of pulses and said data line control means recognizes completion of said number of pulses to set said data line switch to enable reading of said sensor module output.

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10. The sensor system of claim 8 wherein said emitting element is a light generating device and said sensor element is a light detecting device.

11. The sensor system of claim 7 wherein said sensor module includes:  
an emitting element for sending out an emission to be sensed by said sensor element; and

said sensing circuit including a first output supplying said output indicating signal and a second output for a drive circuit to output a drive signal for driving said emitting element.

12. The sensor system of claim 11 wherein said emitting element is a light generating device and said sensor element is a light detecting device.

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13. The sensor system of claim 7 wherein said sensor module includes:  
an emitting element for sending out an emission of light to be sensed by said  
sensor element;

said sensing circuit including a drive circuit to output a drive signal for  
driving said emitting element; and  
said sensor element is a light detection device.

14. A sensor system comprising:  
a sensor module including:

a sensor element; and

a sensing circuit for processing an output signal from said  
sensor element to provide a sensor module output and for outputting  
an output indicating signal signifying a start of output of said sensor  
module output; and

a control circuit for receiving and processing said sensor module output and  
providing a processed output, said control circuit including:

a data line switch controlling power to a data line receiving said sensor module output to enable reading of said sensor module output; and

a data line control means for setting said data line switch to enable reading of said sensor module output in response to receiving said output indicating signal.

15. The sensor system of claim 14 wherein said sensor module includes:  
an emitting element for sending out an emission to be sensed by said sensor element;

said sensing circuit including a drive circuit producing a drive signal for driving said emitting element and driving generation of said output indicating signal.

16. The sensor system of claim 14 wherein:

said control circuit include means for detecting completion of reception of said sensor module output; and

said data line control means sets said data line switch to disable reading said sensor module output in response to the detection of completion and prior to said control circuit processing said sensor module output.

17. The sensor system of claim 16 wherein said sensor module includes:  
an emitting element for sending out an emission to be sensed by said sensor  
element; and

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said sensing circuit including a drive circuit producing a drive signal for  
driving said emitting element and driving generation of said output indicating  
signal.

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18. The sensor system of claim 17 wherein said drive signal and said output  
indicating signal are formed of a number of pulses and said data line control means  
recognizes completion of said number of pulses to set said data line switch to  
enable reading of said sensor module output.

19. The sensor system of claim 17 wherein said emitting element is a light  
generating device and said sensor element is a light detecting device.

20. The sensor system of claim 16 wherein said sensor module includes:  
an emitting element for sending out an emission to be sensed by said sensor  
element; and